

NCDC Data Management



Data Sources



Digital Media & Direct

- · NOAAPort

·Original forms & manuscripts

Non-digital · Autographic charts & rolls Punched paper tapes Media

Electronic transfer

- readable paper charts & tapes
- Magnetic tane

The NCDC digital data archive qualed 1.3 petabytes, or 1300 ncoming digital data, as well as those data being migrated from old media, are being stored on the Hierarchical Data Storage System (HDSS), a robotics mass storage system. Electronically delivered radar automatically archived to the nventoried within minutes of

QUANTITY OF DIGITAL DATA IN THE NCDC ARCHIVE

MINISTUR POES

erabytes, in 2002. All

and satellite data are

obotics system and

End-user query tools

Digital Archive



ANTONAL CLIMATIC DATA
LESOURCE FOR CLIMA, C.

raditional magnetic and optical storage media require vast amount of storage pace and have significant ibrary management overhead While data are electronically eadable, operators must nanually load the storage nedium onto a drive before it







Migration of older media to robotics storage system

HDSS Robotic Storage System





The IBM Hierarchical Data Storage System HDSS) robotics library is the focal point of NCDC's digital data library. Multiple tape lrives and robotically managed storage abinets are addressable as a single, massive torage system. Thus, the end-user need not know what tape data is stored on in order to

When a tape storage cabinet is full. additional cabinets may be added to increase apacity by several hundred tapes. Several lifferent tape technologies are currently in se, with roughly 4000 80 gigabyte (GB) 590 tapes coexisting seamlessly with iewer 200 GB Linear Tape Open (LTO)

requently used data is automatically oved from tape to cache on high speed agnetic disc. Current cache capacity is 700 GB, and will increase to more than 5000 GB





Non-Digital Archive









Imaging of non-digital holdinas

NCDC is working with contractors to convert paper and film holdings to digital images. While some documents will be maintained in original form, digital imaging increases accessibility and guarantees long-term viability of the data.